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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/564,200	01/11/2006	Takashi Kariya	282371US90PCT	7428
22850 7590 01/02/2009 OBLON, SPIVAK, MCCLELLAND MAIER & NEUSTADT, P.C. 1940 DUKE STREET ALEXANDRIA, VA 22314			EXAMINER	
			ABRAMS, NEIL	
ALEAANDRIA, VA 22314			ART UNIT	PAPER NUMBER
			2839	
			NOTIFICATION DATE	DELIVERY MODE
			01/02/2009	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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	Application No.	Applicant(s)				
	10/564,200	KARIYA ET AL.				
Office Action Summary	Examiner	Art Unit				
	Neil Abrams	2839				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on 8-26-	2008`.					
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· <u> </u>	, 					
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4)⊠ Claim(s) <u>1-3 and 5-22</u> is/are pending in the application.						
,	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-3 , 5-22</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers	·					
· · · <u> </u>						
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the o	• • • • • • • • • • • • • • • • • • • •	, ,				
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
TT) The bath of declaration is objected to by the Ex	aminer, Note the attached Office	Action of form PTO-152.				
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s)	4) 🗆 Internite - 0	(PTO 442)				
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) ∐ Interview Summary Paper No(s)/Mail Da					
3) Information Disclosure Statement(s) (PTO/SB/08) 5) Notice of Informal Patent Application						
Paper No(s)/Mail Date 6) U Other:						

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DETAILED ACTION

Claims 1-3 and 5-22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Azuma in view of Tulik, Farook, Ikeda, Milkovich, Barrett and the Japan patent 59-966. The references are applied as in last office action..

Applicant's arguments filed with the last response have been fully considered but they are not persuasive. See discussion in last office action on page 3 which provides response to similar arguments by applicant... In addition the following comments are made. On pages 3,, 4 applicant refers to the thickness range recited in the claims. However note that the cited references all show interposer thicknesses that fall well within that recited in claims 1, 11. While these are admittedly not to scale they each seem to be drawn so as to at least approximately represent actual cases that would be used in the prior art with interposers that are about equal to, down to ones that are about 10% of , substrate thickness In addition the range recited in claims 1, 11 is very wide and involves a factor of 30 from end to end of the range and would appear to cover almost all interposers in actual use. In addition the selection of a Youngs Modulus to use with an interposer of such wide range thickness is seen as only a selection of optimum parameters and not as an unobvious variation For argument on page 5 selection of hole size is seen as a matter of obvious design and selection of optimum parameters and is not shown to interrelate with other recited features to produce any new result For argument page 6 lines 18-20 both Japan patent and Barrett show holes in grid arrangement. For argument page 7. lines 1-3.

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terms "or equal to or larger than " are met by all five applied references that show

holes in interposers.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time

policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE

MONTHS from the mailing date of this action. In the event a first reply is filed within

TWO MONTHS of the mailing date of this final action and the advisory action is not

mailed until after the end of the THREE-MONTH shortened statutory period, then the

shortened statutory period will expire on the date the advisory action is mailed, and any

extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

the advisory action. In no event, however, will the statutory period for reply expire later

than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication should be directed to Neil Abrams at

telephone number 571-272-2089.

/Neil Abrams/

Primary Examiner, Art Unit 2839